

Project Request Form

OVERSIZING & EXTENSIONS (910161-48634) . roject Title:

Project Priority:

Priority 2

Project Code: proj200

Project Type:

NEW

Start Date (FYE): 1999

Completion Date (FYE): 2015 Status: Active Department: 2011 Justifications: **Description:** Mandated This is a progressive water system planning tool for making funds available to provide water into areas Remove hazards not yet receiving that service. Maintains service Explanation: Increase efficiency There are three means by which these funds are distributed: Increase revenues 1) Annual review of applications based upon priority types. Improves service 2) Interdepartmental or city council requests. 3) The Director's option to enlarge or extend a watermain within a developer's project; beyond the New service project's documented needs. Convenience Other Funds are not shown beyond the five year duration of the CIP plan. Alternative: No city participation.

| Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
|-----------|--|--|---|---|---|---|--|
| \$825,700 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | | \$950,700 |
| \$825,700 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | | \$950,700 |
| Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| \$825,700 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | | \$950,700 |
| \$825,700 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | | \$950,700 |
| Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Totai |
| | \$825,700 \$825,700 Prior \$825,700 | \$825,700 \$25,000 \$825,700 \$25,000 Prior 2011 \$825,700 \$25,000 \$825,700 \$25,000 | \$825,700 \$25,000 \$25,000 \$825,700 \$25,000 \$25,000 Prior 2011 2012 \$825,700 \$25,000 \$25,000 \$825,700 \$25,000 \$25,000 | \$825,700 \$25,000 \$25,000 \$25,000 \$825,700 \$25,000 \$25,000 \$25,000 Prior 2011 2012 2013 \$825,700 \$25,000 \$25,000 \$25,000 \$825,700 \$25,000 \$25,000 | \$825,700 \$25,000 \$25,000 \$25,000 \$25,000 \$825,000 \$25,000 \$25,000 \$25,000 Prior 2011 2012 2013 2014 \$825,700 \$25,000 \$25,000 \$25,000 \$25,000 \$825,700 \$25,000 \$25,000 \$25,000 | \$825,700 \$25,000 \$25,000 \$25,000 \$25,000 \$25,000 \$825,700 \$25,000 \$25,000 \$25,000 \$25,000 Prior 2011 2012 2013 2014 2015 \$825,700 \$25,000 \$25,000 \$25,000 \$25,000 \$25,000 \$825,700 \$25,000 \$25,000 \$25,000 \$25,000 \$25,000 | \$825,700 \$25,0 |



2. Area to remain without water service.

Capital Improvement Program FY2011 thru FY2015

Project Request Form

| Project Title: | SMITHLAND RO | AD AREA (91 | 10161-48 | 633) | | | | | |
|---|---------------------|-----------------|-----------|-------------|--|------------|-----------|-----------|--|
| Project Priority: | Priority 2 | | | | | | | | |
| Project Code: | proj201 | Project | Type: | NEW | | Start | Date (FYE |): | 1999 |
| Department: | 2011 | Status: | Active | | í | Completion | Date (FYE |): 2 | 2020 |
| Description: | | | | | | | | Jus | stifications: |
| installation has bee | n made from Page : | 19 of the Engin | | | nd Road. Itemization outlined | | | X | |
| | ed November, 2000. | 1 | | | | . <u></u> | | \square | Maintains service |
| Explanation: | | | | | | | | Ц | Increase efficiency |
| Completed projects * 333-0203 Railroad * 378-0506 Linda L | to NHC \$27 | '0,198 * | 339-0203 | Railroad to | wn Rd to NHC \$184,4 o I-81 N \$245,95 I Furnace Rd \$414,16 | 4 | | X | Increase revenues Improves service New service |
| Future Projects * Water Pump Stati * Water Storage Ta | | * Betts | Rd to Kee | | 340,000 d \$600,000 0)= \$3,130,000 | | | | Convenience Other |
| Alternative: | | | | | | | | | |
| 1. Bond fund at a | faster installation | schedule. | | | | | | | |

| Evnanditurası | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Entres | Total |
|--|-------------|----------|----------|----------|----------|----------|-------------|-------------|
| Expenditures: | PHOI | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| Planning Land Construction Equipment Other Expenses | \$1,494,647 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$3,005,150 | \$4,624,797 |
| Total | \$1,494,647 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$3,005,150 | \$4,624,797 |
| Funding Sources: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| General Revenue Enterprise Revenue Bond Proceeds Grants Capital Project Fund Other Revenue | \$1,494,647 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$3,005,150 | \$4,624,797 |
| Total | \$1,494,647 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$3,005,150 | \$4,624,797 |
| Operating Impacts: Personnel Operating Capital Offsets | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| Total | | | | | | | | i |



Project Request Form

| Project Title: | WESTERN RAW | WATERLINE (910 |)161-4862 | 21) | | | |
|---|--|---|---|---|--|------|--|
| Project Priority: | Priority 2 | | | | | | |
| Project Code: | proj202 | Project Typ | e: REF | LACEMENT | Start Date (F | - | |
| Department: | 2011 | Status: Ad | tive | | Completion Date (F | YE): | 2020 |
| Description: | | | | | | Jus | stifications: |
| pipe from Riven Roc and least cost water | em Source Raw W ck Intake to Harriso at a capacity to de led and used at an | Vater Supply by Wile onburg WTP. This pr eliver 13.8 MGD. Th y increment. This pir | y & Wilson" oject will as le schedule beline will pr | . Target goal is to sure an optimal to of implementation ovide the greates | o install 30" water use of high quality n is flexible as st advantage | | Mandated Remove hazards Maintains service Increase efficiency Increase revenues Improves service |
| Explanation: | | | | | | | New service |
| Construction Progre Completed Projects Remaining Projects Fund Balance: \$77 Require New Fundir | (99, 136, 199, 273 (TBD) > 33,262 ft 7,000 | 3, 297, 345, 388) > 2 = \$9,147,000; \$12,9 | | ,10)= \$11,025,00 | 0 | | Convenience Other |
| Alternative: | | | | | | | |
| The project can be the schedule for u | | ipe diameter to a n elayed/altered. | ninimum d | elivery capacity | of 5.5 MGD or | | |

| Expenditures: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
|--|-------------|-----------|-----------|-----------|-----------|-----------|-------------|--------------|
| Planning Land Construction Equipment Other Expenses | \$4,722,880 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$9,755,000 | \$14,977,880 |
| Total | \$4,722,880 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$9,755,000 | \$14,977,880 |
| Funding Sources: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| General Revenue Enterprise Revenue Bond Proceeds Grants Capital Project Fund Other Revenue | \$4,722,880 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$9,755,000 | \$14,977,880 |
| Total | \$4,722,880 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 | \$9,755,000 | \$14,977,880 |
| Operating Impacts: Personnel Operating Capital Offsets | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| Total | | | | | | | | |



Capital Improvement Program FY2011 thru FY2015 Project Request Form

Project Title: EASTERN SOURCE DEVELOPMENT (910161-48654)

Project Priority: Priority 2 Project Code: proj203 Project Type: NEW Start Date (FYE): 2000 Department: 2011 Status: Active Completion Date (FYE): 2020 Description: Justifications: Mandated Surface Water Intake on South fork of Shenandoah River and waterline to the existing water treatment plant as outlined in the Wiley & Wilson "Waterline Route Study-Shenandoah River", November 18, 1999. Remove hazards **Explanation:** Maintains service Increase efficiency Total Project Cost: \$32,000,000 Fund to receive \$2,200,000 from internal project transfer Increase revenues Improves service Alternative: New service 1. Western source reservoirs Convenience 2. Western source groundwater Other 3. Eastern source groundwater 4. Joint Plan with Rockingham County 5. Limit growth.

| Expenditures: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
|--|----------------------------|-----------|-----------|-----------|-----------|-----------|--------------|-----------------------------|
| Planning Land Construction Equipment Other Expenses | \$10,547,742 | \$350,000 | \$350,000 | \$350,000 | \$350,000 | \$350,000 | \$19,703,000 | \$32,000,742 |
| Total | \$10,547,742 | \$350,000 | \$350,000 | \$350,000 | \$350,000 | \$350,000 | \$19,703,000 | \$32,000,742 |
| Funding Sources: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| General Revenue Enterprise Revenue Bond Proceeds Grants Capital Project Fund Other Revenue | \$7,308,700 \$2,620,000 | \$350,000 | \$350,000 | \$350,000 | \$350,000 | \$350,000 | \$20,322,042 | \$9,058,700 \$22,942,042 |
| Total | \$9,928,700 | \$350,000 | \$350,000 | \$350,000 | \$350,000 | \$350,000 | \$20,322,042 | \$32,000,742 |
| Operating Impacts: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| Personnel Operating Capital Offsets | | | | | | | \$41,725,238 | \$41,725,238 |
| Total | | | | | | | \$41,725,238 | \$41,725,238 |



Project Request Form

. roject Title:

TANK REHAB FOR POTABLE WATER STORAGE (910161-48627)

Project Priority:

Priority 2

Project Code: Department: proj205 2011 Project Type: Status: Active REPLACEMENT

Start Date (FYE): 2001

Completion Date (FYE): 2020

Justifications:

Mandated

Remove hazards

Maintains service

Increase efficiency

Increase revenues

Improves service

New service

Convenience

Other

Description:

This program targets funding to rehabilitate or replace existing water system potable storage tanks based upon the asset condition, value and lifecycle analysis.

Explanation:

Interior and exterior preparation and painting of the following steel water storage facilities:

- 1) Park View Tank replacement (\$1,200,000)
- 2) Ridgeville Tank Interior & Exterior Blast & Paint (\$200,000) 3) Cooper's Mt Tank Interior & Exterior Blast & Paint (\$200,000)
- 4) Walker Tank Exterior Blast & Paint or total tank removal (\$200,000)

Total

\$1,800,000

Currently available in fund: \$490,000

Required new funding: \$1,310,000... \$1,848,000 (3.5,10)= \$1,579,000

Alternative:

No action until failure occurs.

| Expenditures: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
|--|-------------|----------|----------|----------|----------|----------|-------------|-------------|
| Planning Land Construction Equipment Other Expenses | \$1,211,700 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$1,454,000 | \$2,790,700 |
| Total | \$1,211,700 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$1,454,000 | \$2,790,700 |
| Funding Sources: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| General Revenue Enterprise Revenue Bond Proceeds Grants Capital Project Fund Other Revenue | \$1,211,700 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$1,454,000 | \$2,790,700 |
| Total | \$1,211,700 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$1,454,000 | \$2,790,700 |
| Operating Impacts: Personnel Operating Capital Offsets | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| Capital | | | | | | | | |



Project Request Form

Project Title: REPAIR MAINS AND APPURTENANCES (910161-48635) **Project Priority:** Priority 2 Project Code: proj206 Project Type: REPLACEMENT Start Date (FYE): 2003 Department: 2011 Status: Active Completion Date (FYE): 2015 Description: Justifications: Mandated This program targets funding to rehabilitate or replace water system assets using lifecycle evaluation analysis. The purpose is to maintain a vibrant water system by systematically upgrading watermains, Remove hazards valves, hydrants and other appurtenances. Maintains service Explanation: Increase efficiency Increase revenues Rehabilitation or replacement is guided by 1) asset condition and lifecycle value Improves service 2) status with respect to needed fireflow (NFF) vs. available fireflow (AFF) for ISO rating purposes New service 3) coordination with other city projects such as roads and bridges Convenience Other Funds are not shown beyond te five year duration of the CIP plan. **Alternative:** Pursue upgrade and repair using operating funds and approach at the time of facility failure.

| Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
|-------------|--|--|---|--|---|--|--|
| \$1,540,152 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | | \$1,790,152 |
| \$1,540,152 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | | \$1,790,152 |
| Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| \$1,540,152 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | | \$1,790,152 |
| \$1,540,152 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | | \$1,790,152 |
| Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| | \$1,540,152 \$1,540,152 Prior \$1,540,152 | \$1,540,152 \$50,000 \$1,540,152 \$50,000 Prior 2011 \$1,540,152 \$50,000 \$1,540,152 \$50,000 | \$1,540,152 \$50,000 \$50,000 \$1,540,152 \$50,000 \$50,000 Prior 2011 2012 \$1,540,152 \$50,000 \$50,000 \$1,540,152 \$50,000 \$50,000 | \$1,540,152 \$50,000 \$50,000 \$50,000 \$1,540,152 \$50,000 \$50,000 \$50,000 Prior 2011 2012 2013 \$1,540,152 \$50,000 \$50,000 \$50,000 | \$1,540,152 \$50,000 \$50,000 \$50,000 \$50,000 \$1,540,152 \$50,000 \$50,000 \$50,000 \$50,000 Prior 2011 2012 2013 2014 \$1,540,152 \$50,000 \$50,000 \$50,000 \$1,540,152 \$50,000 \$50,000 \$50,000 | \$1,540,152 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$1,540,152 \$50,000 | \$1,540,152 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$ \$1,540,152 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 Prior 2011 2012 2013 2014 2015 Future \$1,540,152 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 \$ \$1,540,152 \$50,000 \$50,000 \$50,000 \$50,000 \$50,000 |



Project Request Form

∠roject Title:

SECURITY AND SCADA (910161-48668)

Project Priority:

Priority 2

Project Code:

proj210

Project Type:

ADDITION & REPLACEMENT

Start Date (FYE): 2007

Justifications:

Mandated

Remove hazards

Maintains service

Increase efficiency

Increase revenues Improves service

New service

Convenience

Other

Department: 2011 Status: Active

Completion Date (FYE): 2015

Description:

Implement selected strategies Identified in the City Water Department Vulnerability Assessment that was conducted to comply with Section 1433(b) of the Safe Drinking Water Act as amended by the Public Health Security and Bioterrorism Act of 2002 (Public Law 107-188, Title IV- Drinking Water Security and Safety). Also maintain state of the art SCADA system.

Explanation:

Selections of implementation items are as follows:

- * Security enhancements as itemized per referenced vulnerability assessments
- * Conversion of SCADA system from telephone link to radio link
- * Replacement of SCADA system DPC 3330 units (discontinued) to control wave units

Funds are not shown beyond the five year duration of the CIP plan.

Alternative:

| ain avietina evetam | Datain |
|------------------------|---------|
| airi existiriu system. | Cetalli |
| ain existing system. | Retain |

| Expenditures: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
|--|-----------|----------|----------|----------|----------|----------|--------|-----------|
| Planning Land Construction Equipment Other Expenses | \$125,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | | \$250,000 |
| Total | \$125,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | | \$250,000 |
| Funding Sources: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| General Revenue Enterprise Revenue Bond Proceeds Grants Capital Project Fund Other Revenue | \$125,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | | \$250,000 |
| Total | \$125,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | | \$250,000 |
| Operating Impacts: Personnel Operating Capital Offsets | Prior | 2011 | 2012 | 2013 | 2014_ | 2015 | Future | Total |
| Total | | | | | | | | |



Project Request Form

Project Title: Western Potable System (910161-48670) **Project Priority:** Priority 2 **Project Code:** proj213 Project Type: REPLACEMENT Start Date (FYE): 2009 Department: 2011 Status: Active Completion Date (FYE): 2020 Description: Justifications: Mandated The City's rural customer base along Route 33 West is supplied from a 10" diameter cast iron (unlined) pipe that has been installed in the late 1890's. This program begins to address funding for lifecycle Remove hazards replacement of the pipeline. Maintains service **Explanation:** Increase efficiency Increase revenues Total projected cost is not known at this time. The existing 16" raw waterline will be converted to potable status between the WTP and Hinton; then discarding the existing 10" pipe in that area. Beyond Hinton, Improves service planning has not been completed. An arbitrary value of \$1,000,000 has been stated as the total cost. New service Alternative: Convenience Other

| Expenditures: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
|--|-----------|----------|----------|----------|----------|----------|-----------|-------------|
| Planning Land Construction Equipment Other Expenses | \$225,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$650,000 | \$1,000,000 |
| Total | \$225,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$650,000 | \$1,000,000 |
| Funding Sources: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| General Revenue Enterprise Revenue Bond Proceeds Grants Capital Project Fund Other Revenue | \$225,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$650,000 | \$1,000,000 |
| Total | \$225,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$650,000 | \$1,000,000 |
| Operating Impacts: Personnel Operating Capital Offsets Total | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |



Project Title:

Capital Outlay (372061)

Capital Improvement Program FY2011 thru FY2015

Project Request Form

Project Priority: Priority 2 Start Date (FYE): 2009 **Project Code:** proj214 Project Type: **ADDITION & REPLACEMENT** Completion Date (FYE): 2014 Department: 2011 Status: Active Justifications: Description: Mandated This program targets funding for capital outlay as itemized below; actual distribution to be determined at Remove hazards budget preparation. Maintains service Explanation: Increase efficiency 48111 Machinery & Equipment 48271 EDP Equipment

| Alternative: | | | | Other |
|------------------------------------|-----------------------------|----------|--------|-------------------|
| 48221 Furniture | 48298 Install Service Lines | | | Convenience |
| 48188 Tanks & Pumps | 48291 Engineering/Mapping | <u> </u> | _ | New service |
| 48181 Buildings & Grounds | 48282 Land | ĺ | _ | Improves service |
| 48131 Radio Equipment | 48273 Software | | ᆗ | Increase revenues |
| 40 i i iviacililery & ⊏quipitierit | 4027 EDF Equipment | | \neg | V |

| Expenditures: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
|--|-------|-----------|-----------|-----------|-----------|-----------|--------|-------------|
| Planning Land Construction Equipment | | \$225,000 | \$225,000 | \$225,000 | \$225,000 | \$225,000 | | \$1,125,000 |
| Other Expenses | | | | | | | | |
| Total | | \$225,000 | \$225,000 | \$225,000 | \$225,000 | \$225,000 | | \$1,125,000 |
| Funding Sources: | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |
| General Revenue Enterprise Revenue Bond Proceeds Grants Capital Project Fund Other Revenue | | \$225,000 | \$225,000 | \$225,000 | \$225,000 | \$225,000 | | \$1,125,000 |
| Total | | \$225,000 | \$225,000 | \$225,000 | \$225,000 | \$225,000 | | \$1,125,000 |
| Operating Impacts: Personnel Operating Capital Offsets Total | Prior | 2011 | 2012 | 2013 | 2014 | 2015 | Future | Total |